

# Developing a diabetes prevention strategy

**American Medical Association - Improving Health Outcomes** 

Kelly Sill, MBA
Senior Manager, Health Care Organization Engagement

#### Disclosure

I have no relevant financial relationships with commercial interests to disclose.



#### Learning Objectives

- Describe the trends in type 2 diabetes and prediabetes
- Review the components of a diabetes prevention strategy
- Demonstrate the AMA's digital resource for developing an implementation strategy to prevent diabetes for your patient population



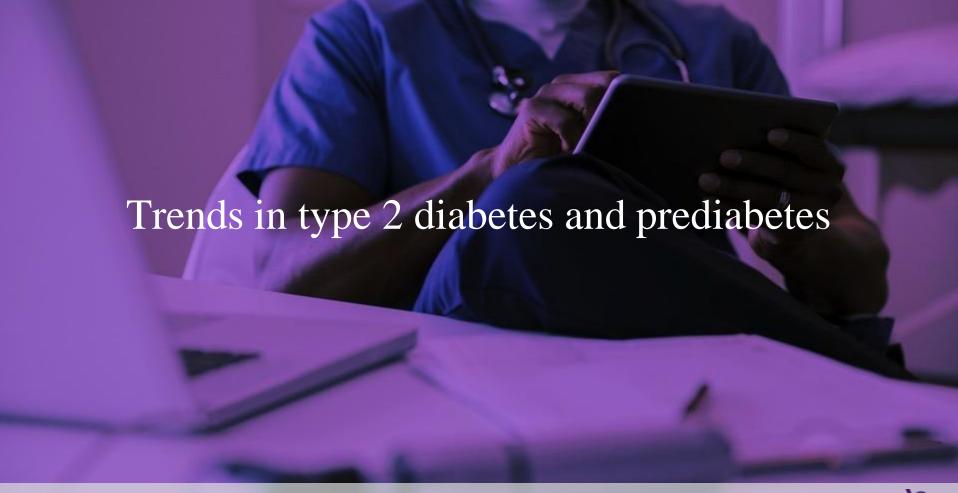
Leading the charge: We are committed to improving health outcomes

No new preventable cases of type 2 diabetes

Everyone with hypertension has their blood pressure at goal

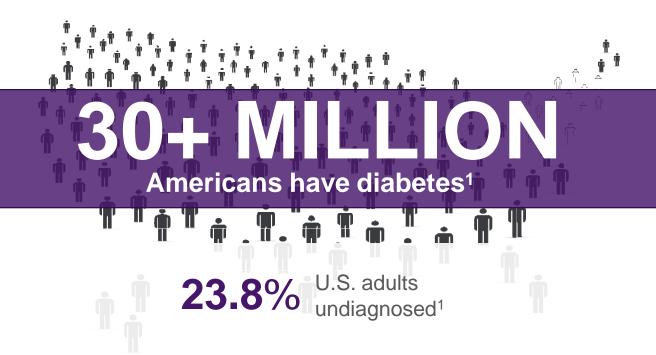
We strive for these goals because type 2 diabetes and hypertension are major risk factors for developing cardiovascular disease.







#### Type 2 diabetes is a growing health problem





# Patients with diabetes are **more likely** to experience complications . . . and have longer stays in the hospital or ICU<sup>2</sup>

were readmitted within three months of initial 26% hospitalization—87% of those were unscheduled<sup>3</sup> Health **15%** visiting an emergency room system present with complications<sup>4</sup> burden of the lifetime costs of diabetes care can be 53% attributed to treating complications<sup>5</sup>



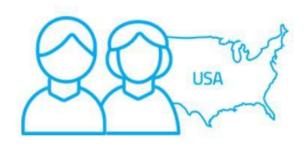
The cost of diagnosed diabetes places a significant burden on individuals, employers, and health systems.

Total est. cost in 2017

\$327 BILLION<sup>6</sup>

**\$237B** in direct medical costs **\$90B** in reduced productivity

#### People with diagnosed diabetes



\$16,750/yr avg. Medical expenses<sup>6</sup> \$9,600/yr avg. Diabetes expenses 2.3X higher expenses than those w/o diabetes





Preventing type 2 diabetes: For the AMAit begins with identifying prediabetes



Physicians, care teams and health care organizations play critical roles in **identifying** and **managing** those at risk for type 2 diabetes.

**Identify individuals** at risk for type 2 diabetes

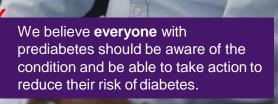
✓ Inform and educate those with prediabetes about their diagnosis

Engage in **shared-decision making** and provide an evidence-based treatment

✓ Includes referral to the National DPP lifestyle change program, medical nutrition therapy, and/or prescribing medication

Support individuals in their treatment plan

✓ Promote self-management and monitor risk





## National Diabetes Prevention Program lifestyle change program

The National DPP lifestyle change program helps participants make sustainable, healthy lifestyle changes and achieve weight loss to lower their risk of developing type 2 diabetes.

#### Key standard for a program to achieve CDC recognition:

- Minimum average weight loss of 5% within 12 months
- Program maintains compliance with oversight and quality standards

#### Core curriculum

Participants attend 16 weekly sessions during the first six months.

#### Follow-up phase

Participants attend one session a month (minimum of 6 sessions).





## Benefits of the National DPP lifestyle change program



Trained lifestyle coaches facilitate group classes of up to 20 participants



Program emphasizes empowerment through a personal action plan



Program curriculum is approved by the CDC



Program providers are required to follow national standards and submit data on participant outcomes to the CDC





#### The AMA catalyzes diabetes prevention

Since 2013, the AMA has activated health care organizations across the U.S. to help them identify and manage more people at risk for type 2 diabetes.

# Our approach

Engage health systems across the U.S.

in type 2 diabetes prevention with a comprehensive assessment and guided process that helps improve patient outcomes Link clinical practices to the evidence-based National Diabetes Prevention Program lifestyle change program

Develop, test and disseminate relevant tools and resources to support planning and implementation of a diabetes prevention

strategy



# The AMA helps drive environmental change to support type 2 diabetes prevention

# Increase public awareness through partnerships

(eg, Centers for Disease Control and Prevention, Ad Council)

#### Our approach

# Shape the health care ecosystem to facilitate delivery of preventive services

including digital health solutions, payment models and quality measurement

# Advocate for policy and funding

that allows for access and participation in National DPP lifestyle change programs

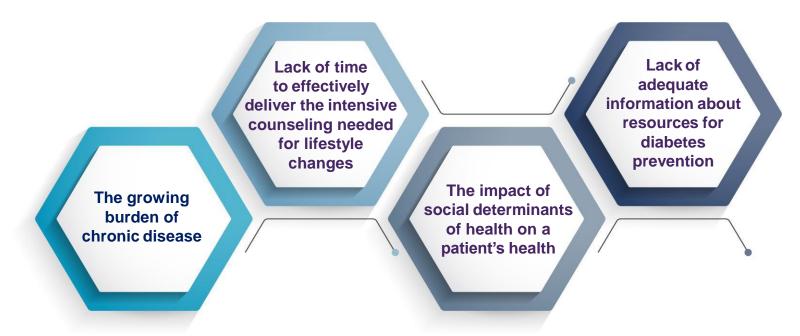


# Challenges faced by health care organizations in implementing diabetes prevention





#### Challenges faced by practicing physicians and care teams





## Components of a diabetes prevention strategy

Identify **Identify project Identify eligible** Select program communication offering patients team and messaging Conduct Set-up **Determine Establish patient** bidirectional physician evaluation referral process feedback loop engagement process



## Identify project team

- Your team should include members who:
  - Are involved in clinical practice change
  - Have continued support/buy-in from system leaders
  - Are responsible for overseeing the planning and organizing of the tasks to implement the initiative
  - Can navigate across the departments/business units in the health care organization





## Select program offering

# Option 1: External National DPP lifestyle change program

- External National DPP lifestyle change programs include community-based lifestyle change programs
  - YMCA, a social service agency, or faith-based institution
- Or a virtual lifestyle change program offered through a digital health company

# Option 2: Internal National DPP lifestyle change program

- Offered by your health care organization or physician practice and responsible for
  - recruiting and training coaches
  - class registration
  - facilitation of CDC-approved curriculum
  - tracking participant progress
  - submitting data to the CDC for program recognition
  - and delivering participant progress reports to the referring physician



#### Identify eligible patients





Occurs during your patient's routine office visit. This provides your practice with the ability to engage with your patients face to face, and refer to a course of treatment while your patient is in the office



**Care Management** 

Uses the EHR to create a report based on risk factors and/or lab values to identify patients who meet the criteria for prediabetes.



## Identify communication and messaging







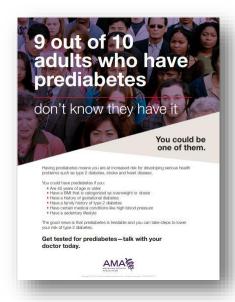
#### Establish patient referral process

- Create a National DPP lifestyle change program referral form or electronic order
- Create a National DPP lifestyle change program referral process that mirrors your standard process





## Conduct physician engagement



Prediabetes awareness poster for the exam room



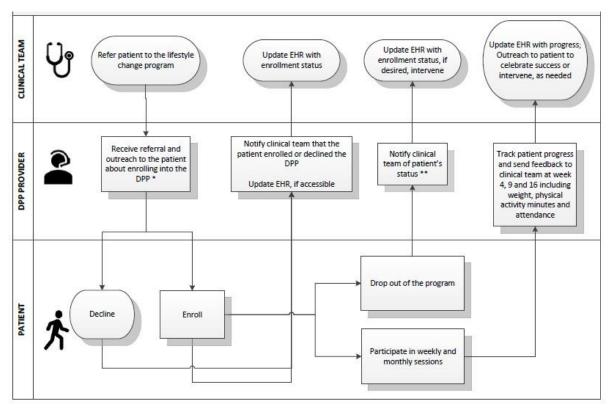
Evidence brief for clinical team education



CME activities available through the AMA's Ed Hub™



## Set up a bidirectional feedback loop





#### Determine evaluation process

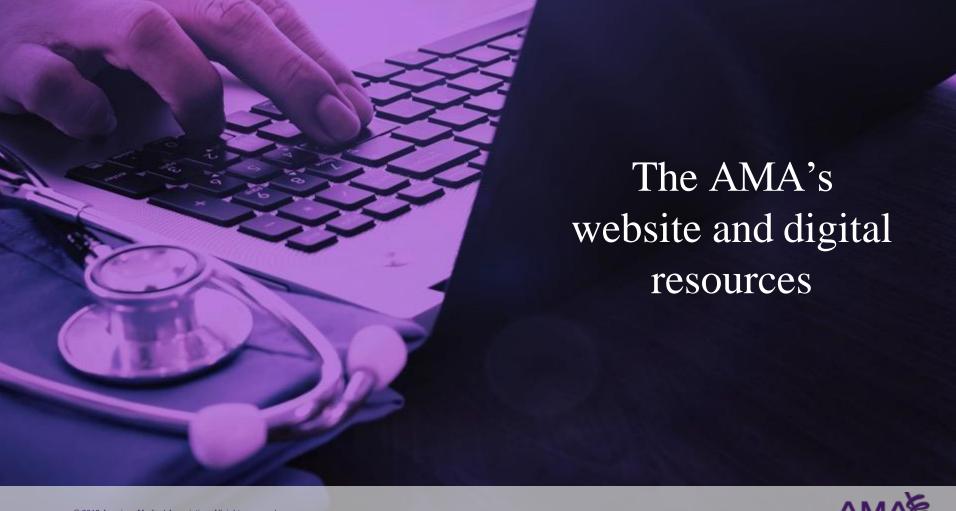


#### Quantitative data

#### Qualitative data

- CDC evaluation data: attendance, weight loss, physical activity minutes.
- Other evaluation data: Number of physicians that referred to the lifestyle change program, number of patients screened, number of referrals, A1c levels, blood pressure measurements, medication being taken, etc.
- Program Operation data: cost, time spent on program, etc.
- Progress toward the goals you established for your program (meet all CDC DPRP standards and requirements, X% of adults who are identified as having pre-diabetes will enroll in a lifestyle change program, decrease # of patients who develop type 2 diabetes by X%)
- A1C changes— how do post-program A1C levels compare to pre-program A1C levels? How many participants are no longer in the prediabetes range?





## Amapreventdiabetes.org



#### Target audience:

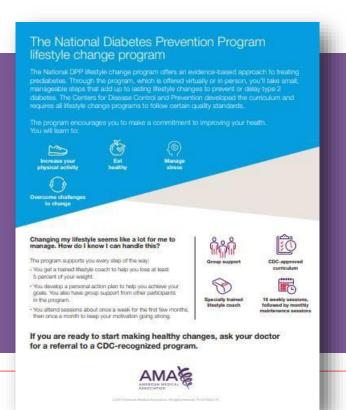
This website is of value to any health care organization looking to implement a diabetes prevention strategy or advance an existing strategy.



## Digital guide

#### Target audience:

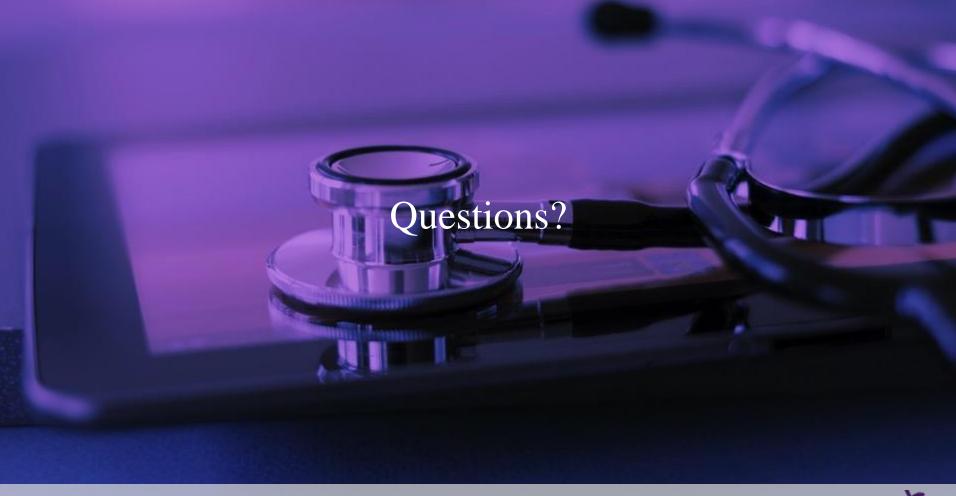
Health care organizations who are interested in creating a diabetes prevention strategy which includes providing their patients with access to a National DPP lifestyle change program.













#### References

- 1. Center for Disease Control and Prevention (CDC). National Diabetes Statistics Report: Estimate of Diabetes and Its Burden in the United States. 2017. Atlanta, GA: Centers for Disease Control and Prevention, U.S. Dept. of Health and Human Services, 2017. https://www.cdc.gov/diabetes/pdfs/data/statistics/national-diabetes-statistics-report.pdf.
- 2. Washington, Raynard E, Roxanne M Andrews, and Ryan Mutter. 2013. "Emergency Department Visits for Adults with Diabetes, 2010. HCUP Statistical Brief #167." Agency for Healthcare Research and Quality, Rockville, MD
- 3. Kotagal, Meera, Rebecca G. Symons, Irl B. Hirsch, Guillermo E. Umpierrez, E. Patchen Dellinger, Ellen T. Farrokhi, and David R. Flum. 2015. "Perioperative hyperglycemia and risk of adverse events among patients with and without diabetes." *Annals of Surgery* 261(1): 97–103.
- 4. Hongsoo, Kim, Ross, Kenneth. 2010. "Scheduled and unscheduled hospital readmissions among patients with diabetes." *American Journa*, Joseph S. Melkus, Gail D. Zhao, Zhonglin, and Boockvar*l of Managed Care* 16(10): 760–767.
- 5. Zhuo, Xiaohui, Ping Zhang, and Thomas J. Hoerger. 2013. "Lifetime Direct Medical Costs of Treating Type 2 Diabetes and Diabetic Complications." *American Journal of Preventive Medicine* (Elsevier) 45 (3): 253-261.
- 6. American Diabetes Association. Economic Costs of Diabetes in the US in 2017. Diabetes Care. 2018; 41(5): 917-928. https://doi.org/10.2337/dci18-0007



